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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. **01-474**First Inventor or Application Identifier **ABE et al.**Title **DIODE AND PRODUCING METHOD THEREOF**

Express Mail Label No. _____

APPLICATION ELEMENTS
 See MPEP chapter 600 concerning utility patent application contents.

1. * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Specification [Total Pages **73**]
 -Descriptive title of the Invention
 -Cross Reference to Related Applications
 -Background of the Invention
 -Summary of the Invention
 -Brief Description of the Drawings
 -Detailed Description of the Preferred Embodiment
 -Claims
 -Abstract of the Disclosure
3. Drawing(s) (35 U.S.C. 113) [Total Sheets **21**]
4. Oath or Declaration [Total Sheets **3**]
 a. Newly executed (original or copy)
 b. Copy from a prior application (37 C.F.R. § 1.63 (d))
(for continuation/divisional with Box 16 completed)
 i. DELETION OF INVENTOR(S)
 Signed statement attached deleting
 inventor(s) named in the prior application,
 see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

***NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28)**

ADDRESS TO: Commissioner for Patents
 Mail Stop Patent Application
 Alexandria, VA 22313-1450

5. Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. Computer Readable Copy
- b. Paper Copy (identical to computer copy)
- c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. Assignment Papers (cover sheet & document(s))
8. 37 C.F.R. § 3.73(b) Statement Power of Attorney
(when there is an assignee)
9. English Translation Document (if applicable)
10. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
11. Preliminary Amendment
12. Return Receipt Postcard (MPEP 503)
(should be specifically itemized)
13. *Small Entity Statement(s) Statement filed in prior application,
(PTO/SB/09-12) Status still proper and desired
14. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
15. Other:

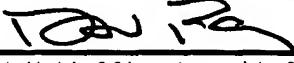
16. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment: Continuation Divisional Continuation-in-part (CIP) of prior application No: _____

Prior application information: Examiner _____ Group/Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	(Insert Customer No. or Attach bar code label here)		<input type="checkbox"/> or <input checked="" type="checkbox"/> Correspondence address below
Name	23400 PATENT TRADEMARK OFFICE		
Address			
City	State	Zip Code	
Country	Telephone	(703) 707-9110	Fax (703) 707-9112

Name (Print/type)	DAVID G. POSZ	Registration No. (Attorney/Agent)	37,701
Signature			Date July 28, 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Arlington, VA 22202. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Alexandria, VA 22313-1450.

 00745 U.S. PTO
 10/6/2003
 07/28/03

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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 2176)

Complete if Known

Application Number

July 28, 2003

Filing Date

First Named Inventor

ABE et al.

Examiner Name

Group/Art Unit

Attorney Docket No. 01-474

METHOD OF PAYMENT (check one)

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number

50-1147

Deposit Account Name

POSZ & BETHARDS, PLC

 Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

2. Payment Enclosed:

 Check Money Order Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity				Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Description		
1001	750	2001	375	Utility filing fee	750
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)				(\$ 750)	

2. EXTRA CLAIM FEES

	Extra Claims	Fee from Below	Fee Paid
Total Claims	69	-20**= 49	x 18 = 882
Independent Claims	9	-3***= 6	x 84 = 504

Multiple Dependent

** or number previously paid, if greater; For Reissues, see below

Large Entity	Small Entity		Fee Description
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Description
1202	18	2202	9 Claims in excess of 20
1201	84	2201	42 Independent claims in excess of 3
1203	280	2203	140 Multiple dependent claim, if not paid
1204	84	2204	42 **Reissue independent claims over original patent
1205	18	2205	9 **Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)			
(\$ 1386)			

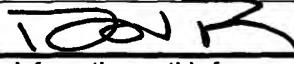
3. ADDITIONAL FEES

Large Entity	Small Entity		Fee Description		Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Description		
1051	130	2051	65 Surcharge – late filing fee or oath		
1052	50	2052	25 Surcharge – late provisional filing fee or cover sheet		
1053	130	1053	130 Non-English specification		
1812	2,520	1812	2,520 For filing a request for reexamination		
1804	920*	1804	920* Requesting publication of SIR prior to Examiner action		
1805	1,840*	1805	1,840* Requesting publication of SIR after Examiner action		
1251	110	2251	55 Extension for reply within first month		
1252	410	2252	205 Extension for reply within second month		
1253	930	2253	460 Extension for reply within third month		
1254	1450	2254	725 Extension for reply within fourth month		
1255	1970	2255	985 Extension for reply within fifth month		
1401	320	2401	160 Notice of Appeal		
1402	320	2402	160 Filing a brief in support of an appeal		
1403	280	2403	140 Request for oral hearing		
1451	1,510	1451	1,510 Petition to institute a public use proceeding		
1452	110	2452	55 Petition to revive – unavoidable		
1453	1,300	2453	650 Petition to revive – unintentional		
1501	1300	2501	650 Utility issue fee (or reissue)		
1502	470	2502	235 Design issue fee		
1503	630	2503	315 Plant issue fee		
1460	130	1460	130 Petitions to the Commissioner		
1807	50	1807	50 Petitions related to provisional applications		
1806	180	1806	180 Submission of information Disclosure Stmt		
8021	40	8021	40 Recording each patent assignment per property (times number of properties)		40
1809	750	2809	375 Filing a submission after final rejection (37 CFR § 1.129(a))		
1810	750	2810	375 For each additional invention to be examined (37 CFR § 1.129(b))		

Other fee (specify) _____

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$ 40)

SUBMITTED BY		Complete if applicable		
Name (Print/Type)	DAVID G. POSZ	Registration No. (Attorney/Agent)	37,701	Telephone (703) 707-9110
Signature				
Date	July 28, 2003			

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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